

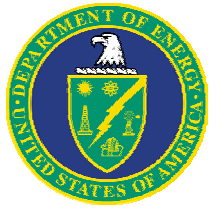
Update of EM Program Plenary Session 1

Transportation External Coordination Working Group Meeting



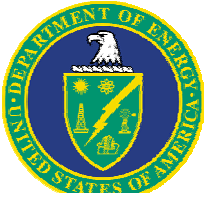
Patrice M. Bubar

July 16, 2003



Topics Covered Today

- EM Vision and Mission
- EM Approach to Transportation
- Ongoing Radioactive Waste Shipments
 - Mixed and Low Level Waste
 - TRU Waste
 - Spent Nuclear Fuel
- EM Transportation Initiatives



Vision

Eliminate significant environmental, health and safety risks as soon as possible allowing use of resources for other national priorities



Accelerating environmental improvements and clean up by **35 years** saving the taxpayer in excess of **\$50 billion**



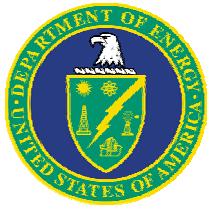
EM Mission

- Accelerated Risk Reduction and Cleanup of environmental legacy of the nation's nuclear weapons programs
- **Key Responsibilities**
 - Safely dispose of large volumes of nuclear wastes
 - Safeguard materials used in nuclear weapons
 - Deactivate and decommission several thousand contaminated facilities
 - Remediate extensive surface and groundwater contamination



EM Approach to Transportation

- Ensure EM shipments are safe and uneventful
- Develop an integrated approach for managing packaging and transportation activities responsive to EM's mission needs
- Coordinate with other DOE programs to identify integration opportunities
- Ensure packaging and transportation requirements (i.e., regulatory, DOE Orders/policies, programmatic) are well defined and complied with in a consistent manner



Partnering with RW

Integration ongoing with the Office of Civilian Radioactive Waste Management (RW)

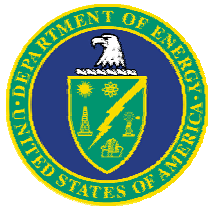
- Discussions underway with RW on operational experiences and best practices in shipping
- Coordinating work with State Regional Groups on transportation planning
- Working with RW on EM corporate project team on spent nuclear fuel integration



TEC Topic Groups Update

Topic Groups have met by phone

- Rail focusing on rail routing to understand how process works, basis for industry practices
- Training and Medical completing modules and videos
- Tribal Topic Group Resource Booklet complete
 - Signup sheet available and on TEC web page

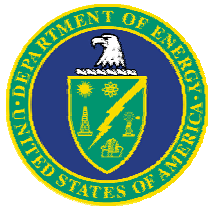


EM Radioactive Materials Shipments (In-commerce)

Material	Shipments*
Mixed & LLW Waste	100's/month
TRU Waste	50-90/month
Spent Nuclear Fuel	Few/year
High Level Waste	None

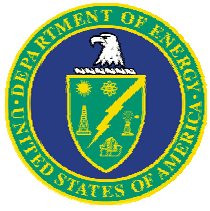
- Shipments vary significantly by month/season
- Shipments are trending higher
- Truck shipments predominate but rail volume significant

*Excludes EM nuclear materials shipped by Safe Secure Transport (SST)



Snapshot of Mixed & LLW Shipments (May 2003 Data)

<u>Shipping Sites</u>	<u>Receiving Sites</u>	<u>Mode</u>	<u>Shipments</u>
Fernald, INEEL, LLNL, Oak Ridge, Miamisburg, Rocky Flats, Savannah River, West Valley	Envirocare	Truck	254
	Nevada Test Site	Truck	149
	Other Sites	Truck	3
Hanford, Oak Ridge	Within State	Truck	143
Fernald, Miamisburg, Oak Ridge, Savannah River	Envirocare	Rail	5
Total Shipments			554



EM Rail Shipments - Few But Productive (May 2003 Data)*

<u>Shipping Site</u>	<u>Receiving Site</u>	<u>Trains</u>	<u>Rail Cars</u>	<u>Truck Shipment Equivalents</u>
Fernald	Envirocare	1	64	320
		1	62	310
Miamisburg	Envirocare	1	52	260
Oak Ridge	Envirocare	1	1	14
Savannah River	Envirocare	1	1	12
Mound	Savannah River	1	1	4
TOTAL		6	181	920

* All shipments are mixed or low level waste except Mound to Savannah River (TRU Debris)



WIPP Accomplishments to Date

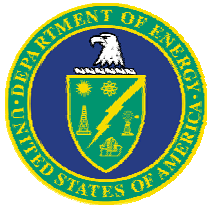
- Since March 1999, approximately 13,200 m³) of contact-handled TRU waste shipped and disposed at WIPP.
- Over 1,832 truck shipments from 6 sites to WIPP
- Four small quantity sites completed.
- Rail shipments from Mound to SRS continue (completion expected this Fiscal Year).
- Panel 1 filled in March 2003 with 39,414 waste containers (10,496m³).





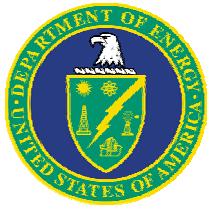
DOE's Proposed Path Forward For TRU Rail Shipments

- Use DOE experience and lessons learned (NR, Mound to SRS, Fernald, etc.) to build DOE's rail protocols
- Establish an internal DOE working group to update rail shipment protocols for the DOE Manual 460.2-1, DOE Transportation Protocols
- Work with the TEC and other stakeholders in developing the TRU waste rail shipping program
- Develop a program plan to support a TRU waste rail program starting during FY 2005



EM Spent Nuclear Fuel Transportation Planning

- EM planning for the following SNF shipments to Idaho and Savannah River:
 - Foreign Research Reactor SNF Acceptance Program
 - Oak Ridge SNF
 - West Valley Demonstration Project
 - Battelle Columbus Laboratory
- Shipments will be consistent with NRC requirements, as appropriate
 - Armed escorts being used for entire trip



Transportation Initiatives

- EM Packaging and Transportation Corporate Project Team
- Federal Interagency Cooperation (FEMA, DOJ, DOT, NRC, DHS)
- Partner with NNSA on use of Secure Transportation Assets
- Integrate SNF campaign planning - we are concerned about DOE credibility with state and tribal governments
- Update DOE transportation Order 460.2 and Manual (protocols)
- Evaluate impact of state fees



Best Practices and the Future

- Today at TEC we will learn about industry best practices and new transportation regulations
- We will discuss how we can adopt best practices, and what else we can do to update our shipping system
- We are interested in your views about how current DOE shipping operations can be improved